

Box-Type Ceramic Fiber Muffle Furnace



1L Capacity (GSMF-1-12,GSMF-2-14,GSMF-2-17) LED Display (Standard) LCD Touch Screen Display(Optional)

Introduction

The box-type muffle furnace is specifically designed equipment for sintering and melting analysis of metallic, non-metallic and other compound materials, used in laboratories of colleges and universities, research institutes, industrial and mining enterprises.

Application

It is widely used for scientific research and small-batch production in enterprise and public institution, also in the fields of ceramics, metallurgy, electronics, glass, chemical engineering, machinery, refractory materials, new material development, special materials, building materials involved in scientific research and teaching in colleges.

Feature

- Appearance Design

It adopts a humanized design, elegant and easy to operate. The outer paint layer is treated with high-temperature baking process of powder coating, which makes it high temperature resistant, oxidation resistant, acid and alkali resistant.

- Structure Design

The shell adopts a double-layer forced air-cooling structure. Cooling is fast, which can make the external temperature of the furnace close to the room temperature when the furnace is at high temperature, avoiding the occurrence of accidental injuries.

- Furnace Chamber Design

It adopts a stepped assembly structure, integrates the laws of mechanics, effectively ensures the force is evenly applied during the heating process, guarantees that thermal energy is not easily lost, and prolongs the service life of the furnace chamber.

- Furnace Chamber Material

The furnace chamber is made of high qualified alumina ceramic fiber, with features of excellent heat preservation, light weight and high temperature resistance, resistant to sudden temperature changes, no cracks, no crystallization and on crumbling. There is no worry about polluting the products being fired.

- Temperature Control Mode

Standard with intelligent 30 segment PID temperature control.

- Temperature Control Safety

The electric furnace adopts integrated circuit and module control to make the electric furnace work stably, reliably and safely. With protection functions such as bias temperature protection, over-temperature protection, broken circuit protection, over-current protection, etc.

Specification

Model	GSMF-1-12	GSMF-2-12E	GSMF-6-12E	GSMF-9-12	GSMF-2-14	GSMF-4-14
Temp.	1200°C	1200°C	1200°C	1200°C	1400°C	1400°C
Capacity	1L	4.5L	12L	36L	1L	4.5L
Chamber Size (WxDxH) (mm)	100x100x100	150x200x150	200x300x200	300x400x300	100x100x100	150x200x150
Consumption	1kw	2kw	6kw	9kw	2kw	4kw
External Size (WxDxH) (mm)	320x425x568	470x570x715	530x670x811	620x770x940	360x445x618	470x570x765
Shipping Size (WxDxH) (mm)	525x550x885	575x755x1025	625x865x1105	725x975x1260	455x580x815	570x755x1010
G.W.	61kg	93kg	127kg	178kg	53kg	94kg
Power Supply	220/110V,50/60Hz 220/110V,50/60Hz 220/110V,50/60Hz 220/380V,50/60Hz 220/110V,50/60Hz 220/110V,50/60Hz					

Ceramic Fiber Muffle Furnace

Specification

Model	GSMF-9-14	GSMF-16-14	GSMF-2-17	GSMF-4-17	GSMF-9-17	GSMF-16-17
Temp.	1400°C	1400°C	1700°C	1700°C	1700°C	1700°C
Capacity	12L	36L	1L	4.5L	12L	36L
Chamber Size (WxDxH) (mm)	200x300x200	300x400x300	100x100x100	150x200x150	200x300x200	300x400x300
Consumption	9kw	16kw	2kw	4kw	9kw	16kw
External Size (WxDxH) (mm)	530x670x846	620x770x985	320x425x568	470x570x815	530x670x906	620x770x1055
Shipping Size (WxDxH) (mm)	625x865x1115	720x955x1280	425x565x810	575x760x1030	605x860x1120	725x975x1320
G.W.	124kg	180kg	66kg	136kg	189kg	304kg
Power Supply	220/110V,50/60Hz 110V-380V,50/60H 220/110V,50/60Hz 220/110V,50/60Hz 110V-380V,50/60H 110V-380V,50/60H					

Specification

Technical Data			
Max. Temperature	1200°C	1400°C	1700°C
Working Temperature	1100°C	1300°C	1600°C
Temperature Control Accuracy	±1°C		
Temperature Rising Speed	0-30°C/Min, adjustable (suggest ≤10°C/Min)		
Heating Element	Resistance wire	Silicon carbide rod (SiC rod)	Silicon molybdenum rod (MoSi2 rod)
Temperature Sensor	K type (0-1200°C)	S type (0-1600°C)	B type (0-1820°C)
Heating Mode	Three sides heating	Two sides heating	Two sides heating
Chamber Material	Alumina ceramic fiber		
Standard Accessory	1 pair of crucible tongs, 1 pair of special high-temperature gloves		
Optional Accessory	LCD touch screen(50 segment PID temperature control)		